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**JAN 29 2004**

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**DATE:** January 29, 2004  
**FILE NO:** STL 2988  
**TO:** Yahveh Comas  
**FAX NO:** 703-872-9318  
**PHONE NO:** 650-330-2310 x 3120  
**COMPANY:** USPTO  
**FROM:** James A. Sheridan/ Christina Mendoza  
**PAGE(S) with cover:** 16  
**ORIGINAL TO FOLLOW?** ☐ YES ☒ NO

### RESPONSE TO OFFICE ACTION DATED OCTOER 29, 2003

**TITLE:** RESONANT SHIFTING AND REDUCTION OF MODAL  
DISPLACEMENT FOR IMPROVED ACOUSTICS  
**U.S. SERIAL NO.:** 09/896,006  
**FILING DATE:** June 28, 2001  
**INVENTOR:** Troy Herndon, et al.  
**EXAMINER:** Yahveh Comas  
**GROUP ART UNIT:** 2834  
**CONFIRMATION NO.:** 9333

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PTO/SB/21 (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/896,006	
	Filing Date	June 28, 2001	
	First Named Inventor	Troy Hamdon	
	Group Art Unit	2834	
	Examiner Name	Yahveh Comas	
Total Number of Pages in This Submission	14	Attorney Docket Number	STL 2988

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): <div style="text-align: center;">Fascimile Cover Sheet</div>
<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MOSER PATTERSON & SHERIDAN LLP
Signature	<i>James A. Sheridan</i>
Date	January 29, 2004

CERTIFICATE OF TRANSMISSION/MAILING			
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Typed or printed name	Christina Mendoza		
Signature	<i>Christina Mendoza</i>	Date	January 29, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon on the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT  
Atty. Dkt. No. SEA 2988

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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JAN 29 2004

In re Application of:  
Herndon et al.

Serial No.: 09/896,006

Confirmation No.: 9333

Filed: June 28, 2001

For: APPARATUS AND  
METHOD FOR AIR  
CONTAMINATION  
DETECTION IN DISC  
DRIVE HYDRODYNAMIC  
BEARINGS

Group Art Unit: 2834

Examiner: Comas, Yahveh

OFFICIAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

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TRANSMISSION UNDER 37 CFR 1.8

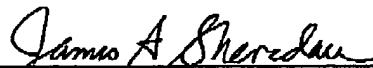
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1-29-04  
DateChristina Mendez  
Signature

## STATEMENT OF COMMON OWNERSHIP

The present application (Serial No. 09/896,006; hereinafter the "Application") and United States Patent No. 6,104,570 (*Pelstring*) were, at the time the invention of the Application was made, owned by, or subject to an obligation of assignment to, Seagate Technology LLC.

Respectfully submitted,

  
James A. Sheridan, Reg. No. 25,435  
MOSER, PATTERSON & SHERIDAN, L.L.P.  
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## RESPONSE TO OFFICE ACTION

Serial No. 09/896,006

Page 1 of 12

IN THE UNITED STATES  
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## PATENT APPLICATION

JAN 29 2004

Applicant: Herndon et al.

Case: SEA 2988

Serial No.: 09/896,006

Filed: June 28, 2001

Examiner: Yahveh Comas

Group Art Unit: 2834

Title: **RESONANT SHIFTING AND REDUCTION OF MODAL DISPLACEMENT  
FOR IMPROVED ACOUSTICS**

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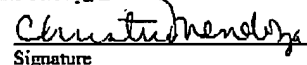
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1-29-04

Date



Signature

RESPONSE TO OFFICE ACTION DATED OCTOBER 29, 2003

S I R:

In response to the Office Action dated October 29, 2003, having a three-month statutory deadline of January 29, 2003, please enter this response and reconsider the claims pending in the application for the reasons discussed below. The Commissioner is authorized to charge Deposit Account No. 20-0782 to the extent necessary to make this response timely.